PCR protocol

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Release date : 1/30/2017
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RBRC 09698 Strain name C57BL/6N-Chd9<em1Ibbr>

Primer	primer_name	primer_seq	length		
1	ApaL1_check_525 Fw	TGTCACCAAGCAGTCTCCTG	20		Depositor's primer
2	WT	TCTGGGAAGTTCATGTGCACGG	22		RIKEN BRC
3	8del	CAACAGGATCTGGGAAGTTCTG	22		RIKEN BRC

Reaction Components

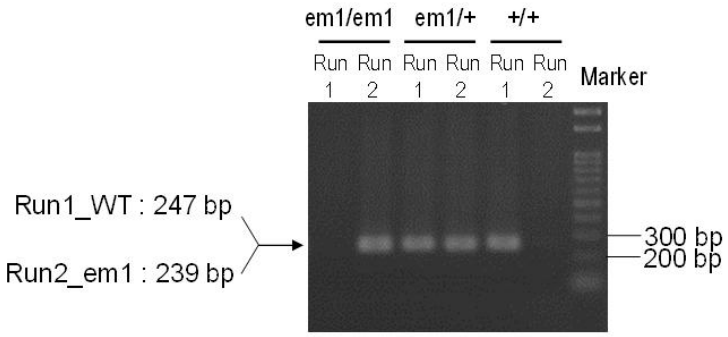
Enzyme: TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/μl	1.0	1.0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
	total	20	20		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	60	* *Repeat for 30 cycles

Separated PCR



Marker: Gene Ladder 100 (Wako, Cat. 316-06951)

Gel: 2% agarose in 1 X TAE (100 V, 30 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	247 bp	WT
primer 1	primer 3	239 bp	em1

Comment: Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.